

STANDARD FORM NO. 64

**CONFIDENTIAL****Office Memorandum • UNITED STATES GOVERNMENT**

TO : The Files

DATE: 25 January 1957

FROM : 

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SUBJECT: Demand Receiver System E/VA-6 (Project #2513-1), Recorder-Power Package E/BT-6 (Project #2518), and Auxiliary-Power Package #/AC-6 (Project #2518-1)

1. An operational test was given the Demand Receiver System E/VA-6 (Project #2513-1) and the Recorder-Power Package E/BT-6 (Project #2518). The test was made using a Hewlett-Packard Signal Generator Model 612A, modulated 50% by a Hewlett-Packard Pulse Generator Model 212A as a simulated radar signal. The Auxiliary-Power Package E/AC-6 (Project 2518-1) was tested for its ability to operate the Demand Receiver only. The results of this test indicate that variation in sensitivity exists among the three recorder units tested but the variation can be tolerated.

2. A Hewlett-Packard Pulse Generator Model 212A was adjusted to produce a 5 microsecond pulse at a pulse repetition frequency of 300. The output of this generator was made to modulate a Hewlett-Packard Signal Generator Model 612A 50% and adjusted to 1000 megacycles. A 1N21A crystal was used to detect the output from the generator and the output of the crystal connected to the Demand Receiver and Recorder-Power Package. The recorder was allowed to function for five minutes (until it cut off automatically). The wire was then "played back" and the output observed on an oscilloscope. The system operated at an average of -43 db below 1 milliwatt with this test set up.

3. The Auxiliary-Power Package was tested to determine its ability to operate the Demand Receiver only.

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